

AlarmRecycle

Annual Report to the Director

2013

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AlarmRecycle 2013 Report to Director, Waste Management

1. Executive Summary

Products within plan	Residential-use smoke and carbon monoxide (CO) alarms
Program website	www.productcare.org/Smoke-Alarms

Recycling Regulation Reference	Topic	Summary
Part 2, Section 8(2)(a)	Public Education Materials and Strategies	<ul style="list-style-type: none"> • Collaboration through RCBC Hotline and Recyclepedia, the SABC Recycling Handbook and the BCUOMA Ambassadors to harmonize consumer-facing information about AlarmRecycle drop-off sites. • Focus on community partnerships and collection during Fire Prevention Week. • Print ads published in 2013 municipal waste and recycling calendars. • Online advertising campaigns that included Google AdWords and Facebook.
Part 2, Section 8(2)(b)	Collection System and Facilities	<ul style="list-style-type: none"> • At the end of the 2013, the province-wide collection system was comprised of 165, contracted and advertised collection sites, including 71 return-to-retail locations, 14 local government facilities, 3 fire departments and 77 private recycling depots.
Part 2, Section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	<ul style="list-style-type: none"> • New ionization foil stamping technology ensures less waste produced and less precious metals used in this stage of the manufacturing process. • There is a general trend in the industry to move from 9 volt to 3 volt alarms reducing the number of batteries required for product operation. • The launch of a new line of smoke and CO alarms that don't require a battery change during the life of the alarm (potentially saving up to 30 batteries). • Alarm lifespans are slowly expanded, thereby reducing the product's disposal rate.

Part 2, Section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	<ul style="list-style-type: none"> The plastic and metal components (copper, aluminum and ferrous etc.) are separated and recycled. Radioactive component of some of the alarms (Am-241 foil) is shipped for final disposal at a licensed radioactive waste facility.
Part 2, Section 8(2)(e)	Product Sold and Collected and Recovery Rate	<ul style="list-style-type: none"> As per the approved program plan, aggregated sales data would not be made publicly available, due to limited number of manufactures, to protect confidential segment share information. Between January 1 and December 31, 2013, the program collected approximately 32,460 units.
Part 2, Section 8(2)(e.1)		<ul style="list-style-type: none"> Program plan commits to reporting on a province basis and not individual Regional Districts
Part 2, Section 8(2)(f)	Summary of Deposits, Refunds, Revenues and Expenses	<ul style="list-style-type: none"> Appendix D contains the Independent Financial 2013 Audit of AlarmRecycle.

Comparison of Key Performance Targets

Part 2 section 8(2)(g); See full list of targets in Plan Performance (Section 9)

Priority Stewardship Plan Targets	Performance	Strategies for Improvement
1. 90% of the population in BC will have access to a collection site by the end of 2013.	Through a third party accessibility analysis, by the end of 2013, 95.8% of the population in BC had access to a collection site based on SABC accessibility standard	n/a
2. In 2012, the program collected a baseline of 21,326 units. An annual target increase of 5% was established. For 2013, the collection target was 23,100 units.	In 2013, approximately 32,460 units were collected.	n/a
3. The program will work with other stewardship programs to try to limit consumer confusion and to develop communication synergies between programs.	AlarmRecycle has joined SABC and is working with similar programs (LightRecycle and PaintRecycle) in outreach to stakeholders. In addition,	AlarmRecycle will continue to reach out to community groups and work with other stewardship programs, where synergies exists.

	AlarmRecycle engages RCBC for hotline and Recyclepedia services.	
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2. Program Outline

AlarmRecycle, the BC Smoke and CO Alarm Recycling Program, began on October 1, 2011. AlarmRecycle is operated by Product Care Association pursuant to the BC Smoke and Carbon Monoxide Alarm Stewardship Plan, approved by the BC Ministry of Environment under the BC Recycling Regulation on August 17, 2011. AlarmRecycle members include manufacturers, brand owners, distributors, first importers and retailers. In 2013 there were 62 AlarmRecycle members; for a complete list of 2013 registered AlarmRecycle members, see Appendix A. This annual report for the 2013 year covers the period from January to December, 2013.

Products that are recycled through AlarmRecycle include: smoke alarms designed for residential-use, as defined by the CAN/ULC-S531 standard¹ and carbon monoxide (CO) alarms designed for residential use, as defined by the CAN/CSA 6.19 standard. The program has developed a collection network of over 150 permanent year-round collection locations. AlarmRecycle does not directly own or manage collection sites but contracts with all collection locations. Collection sites include fire safety organizations, fire halls, retailers, recycling organizations (both non-profit and for-profit) and local government recycling centres or transfer stations.

The AlarmRecycle website is a consumer-facing portal where the public can gather information on various topics, such as what products are accepted in the program, where to find a nearby collection site, promotional materials and membership. The website is www.productcare.org/Smoke-Alarms. Further details on education and outreach efforts are outlined in Section 3.

While the BC Recycling Regulation requires that a program recovery rate be established and reported, the unique nature of the smoke and CO alarm market in BC precludes this option as a performance measure. A recovery rate compares the amount of materials collected to the amount of materials sold over the same time period. Collection and sales data are typically published alongside the recovery rate in order to provide context for a percentage based recovery rate. To calculate the recovery rate would permit estimates of the sales data of individual companies to be published, which is confidential business information. A simple percentage recovery rate would not provide a meaningful measure of program performance without the context of the number sold in the same period. Because there was not a suitable reference point for smoke and CO alarms, the program committed in its approved stewardship plan to

¹ Underwriters Laboratory of Canada (ULC) Standards develops and publishes standards and specifications for specific product types, including those having a bearing on fire safety. Fire alarms installed in dwelling units must conform to the CAN/ULC-S531-02 standard.

submit a collection rate target for the program to the BC Ministry of Environment by April 1, 2013. In the 2012 calendar year, the program collected approximately 21,326 units, which AlarmRecycle used as the collection rate baseline. The program targets a 5% annual increase in the number of units collected as AlarmRecycle's collection rate targets as per Table 5, which was submitted to the Ministry of Environment. In 2013, 32,460 alarm units were collected, exceeding the collection target by 9,360 units or about 40%.

3. Public Education Materials and Strategies

In 2013, AlarmRecycle focused largely on raising awareness and increasing collection rates through fire departments across the province. AlarmRecycle messaging was incorporated in existing Fire Prevention Week promotion. The program worked with fire halls and fire departments across B.C. to determine how information on alarm recycling could be incorporated into their communications strategies. It was determined that much of the work these organizations do is with elementary school-aged children. As such, regular program materials (rack cards, posters and stickers) were supplemented with specially designed colouring books and magnets (based on requests). All program materials are made available to all stakeholders and are free-of-charge to order through reorder@productcare.org or on the Product Care website. Examples of public educational materials are included in Appendix B.

The AlarmRecycle program also worked with organic food delivery companies to promote the recycling of smoke and CO alarms. The idea was to align taking care of your family through wholesome food purchases with taking care of your home and planet by replacing and recycling your old smoke and CO alarms during Fire Prevention Week. AlarmRecycle partnered with Endless Harvest in the West Kootenays and Green Earth Organics in the Fraser Valley, Vancouver and Sea-to-Sky to collect old and expired smoke and CO alarms from their clients.

An online advertising campaign was carried out in March 2013. AlarmRecycle was advertised on two of BC's most well-recognized media channel websites: Global TV BC and CBC. Smoke alarm recycling was also promoted through Facebook advertisements that targeted BC residents specifically. In the fall, Google AdWords and online display ads ran on the Google Display Network and community sites to coincide with Fire Prevention Week (October 6-12), Smoke Alarm Awareness Day (October 12) and Waste Reduction Week (October 21-27). AlarmRecycle public education activities are detailed in Table 1, below.

Additionally, AlarmRecycle participated in several collaborative initiatives, including the Stewardship Agencies of BC (SABC) recycling handbook, joint municipal calendar ads in several regions of the province, the Recycling Council of BC's (RCBC) hotline and Recyclepedia, and the British Columbia Used Oil Management Association (BCUOMA) summer ambassador program.

Table 1: Summary of 2013 AlarmRecycle Outreach

Event	Tactic	Result
<i>Fire Prevention Week</i>	Paid advertising	Online ads were displayed on the following sites: <ul style="list-style-type: none"> • <u>CBC</u>: A moving (GIF) big box online ad was displayed on CBC's BC homepage resulting in 240,038 impressions and 206 click-thrus to alarmrecycle.ca. • <u>Global TV</u>: A moving (GIF) big box online ad was displayed on Global TV BC's homepage resulting in 242,419 impressions and 296 click-thrus to alarmrecycle.ca. • In addition, Facebook ads and Google AdWords targeting BC residents were purchased.
	Outreach to fire departments	<ul style="list-style-type: none"> • Information about the program and program materials were shared via email and phone with over 80 local fire departments across the province. Posters, rack cards, colouring books and magnets were sent to over 25 local fire departments across the province.
	Outreach to regional and municipal contacts	<ul style="list-style-type: none"> • Outreach was made to local government contacts, who were sent an informative email about AlarmRecycle. Local governments were sent packages that included program rack cards and stickers to share with their residents.
<i>Large Volume End Users (LVEU) Outreach</i>	Email	<ul style="list-style-type: none"> • An informative email was sent to 394 property managers across the province, explaining the free pick-up service and notifying them of the over 150 collection sites. • An informative email was sent to 186 fire alarm-related businesses (flood restoration companies, for example), explaining the free pick-up service and notifying them of the over 150 collection sites.
<i>General Public Outreach</i>	Collaborative Efforts	<ul style="list-style-type: none"> • Contracted with RCBC to provide Hotline and Recyclepedia services. • AlarmRecycle ad published in 10, 2013 municipal waste and recycling calendars alongside PaintRecycle, LightRecycle and OPEIC. • AlarmRecycle was promoted through the Product Care Facebook and Twitter accounts on a regular basis. • BCUOMA Ambassadors distributed AlarmRecycle rack cards at community events and depots across B.C.

4. Collection System and Facilities

AlarmRecycle operates drop-off locations across BC where residents can return their smoke and CO alarms. There is no charge for consumers to drop off their products.

Product Care does not directly own or manage any depots, but contracts with all collection sites. At the end of 2013, the province-wide collection system was comprised of 165 contracted, advertised collection sites, including 71 return-to-retail locations, 14 local government facilities, 3 fire departments and 77 private recycling depots. Table 2 below provides a breakdown of the different types of collection sites in 2013, 2012 and 2011. In Appendix C a complete list of collection sites as of December 31, 2013 is provided. Appendix C also includes a table that lists how many collection sites are in each regional district.

The collection system is supplemented by a direct pick up service for approximately 44 sites that are “Large Volume End Users”. These facilities collect large volumes of smoke and CO alarms and include fire safety organizations, electrical distributors and local government facilities.

Table 2: Collection Site Breakdown by Type

Collection Site Type	# of Collection Sites in 2011	# of Collection Sites in 2012	# of Collection Sites in 2013
Retailers	13	66	71
Local government	10	8	14
Recycling depots	53	57	77
Fire departments	0	3	3
Total	76	134	165

5. Product Environmental Impact Reduction, Reusability and Recyclability

While the principal purpose of smoke and CO alarms is safety, the industry has taken into account environmental considerations. Efforts have been made by the smoke and CO alarm industry to reduce the environmental impact of their products. New ionization foil stamping technology ensures less waste is produced and less precious metals are used in this stage of the manufacturing process. The amount of plastic and other materials in a typical smoke alarm has also decreased substantially over the past two decades, while the use of recycled materials in product packaging has increased. Finally, there is a general trend in the industry from 9 volt to 3 volt alarms, reducing the number of batteries required for product operation.

Manufacturers regularly review the design of these products for functionality, sustainability and impact on the environment. They are continually working to find recycled materials for packaging and implement other sustainable initiatives. Some initiatives taken by manufacturers are:

- a) The launch of a new line of photoelectric smoke and CO alarms that don't require a battery change during the life of the alarm. Dependent upon on the type of alarm, up to 30 batteries could be saved per alarm (based on the recommended 10 year life of an alarm and one battery change per year).
- b) The extension of alarm lifespans, which thereby reduces the product's disposal rate. Currently, the lifespan of a smoke and/or CO alarm varies between 5-10 years, depending on its "end of life" rating as determined by the CSA 6.19-01 standard. Some manufacturers are now being approved by the CSA 6.19-01 standard for a 10 year lifespan from date of activation for their carbon monoxide and combination smoke and CO alarms.

6. Pollution Prevention Hierarchy and Product / Component Management

Although not widely known by the general public, the use of ionization smoke detectors is quite common. A radioactive source is used within the detector to ionize the air and produce a small electric current. When smoke enters the detector chamber, the current is interrupted, which causes the alarm to sound. The radioactive element used in the smoke detector is most commonly americium-241 (Am-241) which emits alpha radiation (or alpha particle). The source of radioactivity is quite small. Ionization units collected and shipped are required to be labelled "Radioactive Material - Excepted Package - Articles, UN2911."

The boxes of collected units are consolidated in Product Care Association's facility until sufficient quantities are amassed for processing. During the consolidation, all collected smoke and CO alarms have their batteries removed and sent for recycling. Product Care Association has collaborated with the Call2Recycle stewardship program for safe disposal of batteries through their program. The alarms are sorted and counted before being shipped to an approved and licensed recycler.

At the recycler's facility, prior to dismantling, each smoke alarm in the shipment is physically inspected and inventoried by a Radioactive Materials Technician. The plastic and metal components are separated and sent for recycling. The copper, aluminum and ferrous metal are source separated and shipped for metal recovery, through the scrap metal recycling industry. The remaining Am-241 foil is shipped for final disposal at a licensed radioactive waste facility. The processing and recycling of the alarms in 2013, resulted in approximately 20,565 microcuries of Am-241 diverted from the solid waste stream.

7. Product Sold and Collected and Recovery Rate

Products Sold

Although there are several brand owners in the BC smoke and CO alarm market, the market is primarily served by three brand owners. Given the small number of manufacturers of these products selling into the BC market, as per the Ministry Environment approved stewardship plan, aggregated sales data is not to be made publicly available, as with other stewardship programs.

Collection Volumes

Smoke and CO alarms are collected at collection sites in boxes, totes or mega bags, depending on the volume they expect to receive. Between January 1 and December 31, 2013, the program collected approximately 32,460 units, as shown below in Table 3.

The average number of program alarms within the small containers (boxes and totes) was estimated to be 49. These values were calculated using the sorted values of over 600 small containers which were counted at the time of sorting and consolidation in the Product Care Association Surrey facility between January and December, 2013. The number of alarms collected was determined by multiplying the number of small collection containers collected each month by 49 alarms per container.

The average number of collected program units per mega-bag was estimated to be 991. This number is based on the assumption that a received mega-bag is about 75% full upon arrival from a collection site. The average number of program units processed per completely full mega-bag by AlarmRecycle's processor in 2013 was about 1321 units.

Table 3: Units Collected, January – December, 2013

	January 1 to December 31, 2013	# of Alarms Collected
# of Small Containers	622	30,478
# of Mega Bags	2	1,982
Total	624	32,460

Units Collected by Regional District

Table 4 illustrates the number of smoke and CO alarms collected from each of the province's regional districts between January and December, 2013.

Table 4: Total smoke and CO alarms collected by Regional District, 2013

Regional District	# of Small Containers ¹	# of Mega Bags	# of Smoke & CO Alarms
Alberni-Clayoquot	0	0	0
Bulkley-Nechako	0	0	0
Capital	71	0	3,479
Cariboo	2	0	98
Central Coast	0	0	0
Central Kootenay	4	0	196
Central Okanagan	68	0	3,332
Columbia-Shuswap	0	0	0
Comox Valley	0	0	0
Cowichan Valley	9	0	441
East Kootenay	6	0	294
Fraser-Fort George	4	0	196
Fraser Valley	50	0	2,450
Metro Vancouver	353	2 ²	19,279
Kitimat-Stikine	0	0	0
Kootenay Boundary	4	0	196
Mount Waddington	0	0	0
Nanaimo	24	0	1,176
North Okanagan	10	0	490
Northern Rockies	0	0	0
Okanagan-Similkameen	4	0	196
Peace River	2	0	98
Powell River	0	0	0
Skeena-Queen Charlotte	0	0	0
Squamish-Lillooet	5	0	245
Strathcona	1	0	49
Sunshine Coast	0	0	0
Thompson Nicola	5	0	245
TOTAL	622	2	32,460

1. Conversion factor used: 49 units per small container
2. The number of units in each of the mega-bags collected is estimated to be 991.

Collection Rate and Targets

While the BC Recycling Regulation requires that a program recovery rate be established and reported, the unique nature of the smoke and CO alarm market in BC precludes this option as a performance measure. A recovery rate compares the amount of materials collected to the amount of material sold over the same time period. Collection and sales data are typically published alongside the recovery rate in order to provide context for a percentage based recovery rate. To calculate the recovery rate would permit estimates of the sales data of individual companies to be published, which is confidential business information. A simple percentage recovery rate would not provide a meaningful measure of program performance without the context of the number sold in the same period. Because there was no suitable reference point for smoke and CO alarms, the program committed in its approved stewardship plan to submit a collection rate target for the program to the BC Ministry of Environment by April 1, 2013.

In the collection rate target submission, PCA committed to report on the total number of program products collected annually as the performance measurement tool. The 2012 collection rate (21,326 units) was used as a baseline for the collection rate target. An annual target increase of 5% was established. Table 5 is a summary of the submitted collection rate targets set for 2013-2017. For 2013, AlarmRecycle’s collection target was 23,100 units. The actual number of alarms collected in 2013 was approximately 32,460, exceeding the collection target by 9,360 units or about 40%.

Table 5: AlarmRecycle Collection Rate Targets

	Baseline	Collection Targets			
Year	2012	2013	2014	2015	2016
Units Collected Target	21,326	23,100	24,255	25,468	26,741
Actual Units Collected		32,460			

8. Revenues and Expenditures

AlarmRecycle is funded by membership fees, known as environmental handling fees or eco-fees, remitted to Product Care by its members based on the volume of sales of smoke and CO alarms in British Columbia. The eco-fee rates are set by Product Care. In some cases, retailers recover the fees from consumers as a separate visible eco-fee. Program revenues are applied to the operation of the program, including education, collection system, administration, transport, recycling and disposal of collected products as well as a reserve fund. Table 6 illustrates the eco-fee rates for program products effective since October 1, 2011. Additionally, a copy of the independent financial audit of the program’s revenues and expenses can be found in Appendix D.

Table 6: Eco Fees as of October 1, 2011

Unit Type	Eco Fee
Smoke Alarms ²	\$1.20
Carbon Monoxide (CO) Alarms	\$0.60

Table 7: 2013 AlarmRecycle Revenue and Expenditures

	Amount
Total Revenues	\$ 500,498
Total Expenses	\$ 314,477

9. Plan Performance

2013 Plan Target	2013 Results	Strategies for Improvement
1. The Collection Rate Target for 2013 was 23,100 units.	In 2013, approximately 32,460 units were collected, exceeding the target by 9,360 units	n/a
3. Work with the other stewardship programs to try to limit consumer confusion and to develop communication synergies between programs.	Product Care is a member of the SABC and have participated in various joint initiatives, where synergies exists, such as Summer Ambassador Program and contracting with RCBC for recycling hotline services along with Recyclepedia.	AlarmRecycle will continue to participate and consider options for harmonizing consumer-facing information through SABC amongst other initiatives.
4. By the end of 2013, AlarmRecycle will target an accessibility standard of a minimum of 90% of the provincial population having access to a collection point, where “access” is defined as a 30 minute drive or less to a collection point for those living in urban/urban centres of 150,000 or more and a 45 minute drive or less for those living in communities greater than 4,000 people.	A third party accessibility study completed on April 1, 2014 showed that approximately 95% of the population in BC had access to a collection site	n/a

² Includes combination smoke and CO alarms.

APPENDIX A: 2013 AlarmRecycle Members

Company
0797222 BC LTD DBA Pine Lighting
7594828 Canada inc. (o/a TruServ Canada)
Acklands-Grainger Inc
Acme Fire and Safety Co Ltd.
Ameleco Electric Inc.
Amway Canada Corp.
Bed, Bath & Beyond Canada L.P.
Best Buy Canada
Canadian Tire Corporation
Cascade Bath & Lighting Ltd.
Chalifour Canada
Corporate Express Canada, Inc.
Costco Wholesale Canada
Dicon Global Inc.
EB Horsman & Son
EECOL Electric Corp - Calgary
Farley Manufacturing Inc.
Federated Cooperatives Ltd.
Fibretech Distributors Inc.
Fire Marshal's Public Fire Safety Council's Distribution Centre
Franklin Empire
Gescan, Division of Sonepar Canada Inc.
Gregg Electric Ltd.
Guillevin International Inc.
HD Supply Canada
Her Majesty in right of Canada as represented by the staff of the non-public funds Canadian Forces
Home Depot Canada
Home Hardware
Hudson Bay Company
Illuminations Lighting Solutions
Kerrisdale Lumber Co. Ltd.
Kidde Canada
Lite-scape Lighting Inc.
Loblaw Companies Ltd.
London Drugs Ltd.
Lowe's Companies Canada, ULC
Maple Ridge Lighting
Mircom Distribution (BC) Inc.

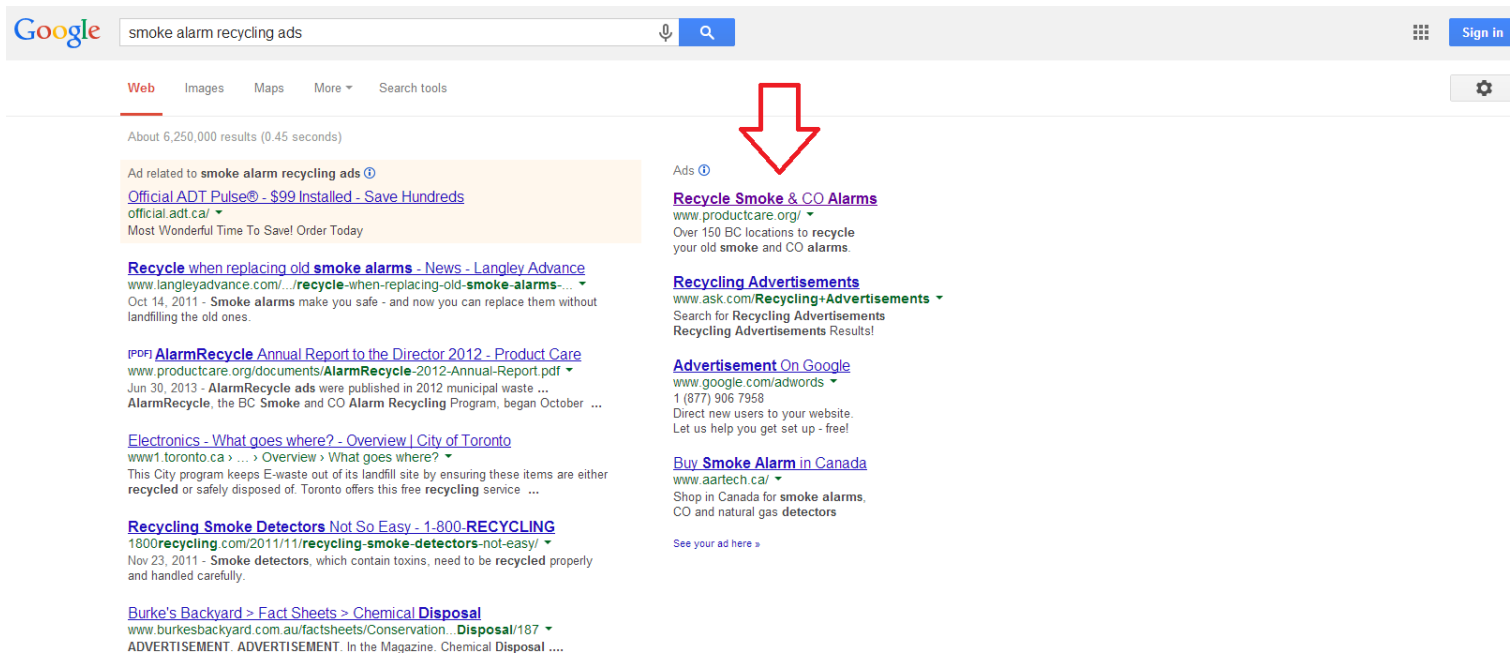
Company
National Fire Equipment Ltd.
Nedco (a division of Rexel Canada Electrical Inc.)
Pacific Coast Fire Equipment
Peavey Industries Ltd.
Pharmasave #221 - Mill Bay Pharmacy
Pharmasave #231 (Leinshare Holdings Inc.)
Pine Lighting Ltd.
Raine Mountain Hardware Ltd
Rona Revy Inc.
Royal City Fire Supplies Ltd
Royal Lighting & Electrical Supply Ltd.
Save More Lighting Ltd.
Serva-Lite Sales
Shadow Lighting & Supplies Inc.
Shoppers Drug mart
Slegg Construction Materials Ltd.
Staples Canada Inc.
Superior Lighting and Bath Inc.
Target Canada Co.
Troy Life & Fire Safety Ltd.
Walmart Canada Corp.
West Point Lighting Ltd.
Westburne West (a division of Rexel Canada Electrical Inc.)
Westcraft Lighting Ltd

APPENDIX B: 2013 Communication Examples

Example of online ads that were placed on CBC and Global TV BC:



Examples of AlarmRecycle ads on the Google search and display network:



Google search results for "smoke alarm recycling ads".

Search results include:

- Official ADT Pulse® - \$99 Installed - Save Hundreds
- Recycle when replacing old smoke alarms - News - Langley Advance
- AlarmRecycle Annual Report to the Director 2012 - Product Care
- Electronics - What goes where? - Overview | City of Toronto
- Recycling Smoke Detectors Not So Easy - 1-800-RECYCLING
- Burke's Backyard > Fact Sheets > Chemical Disposal

Ads section (indicated by a red arrow):

- Recycle Smoke & CO Alarms**
www.productcare.org/ | Over 150 BC locations to recycle your old smoke and CO alarms.
- Recycling Advertisements**
www.ask.com/Recycling+Advertisements | Search for Recycling Advertisements
- Advertisement On Google**
www.google.com/adwords | 1 (877) 906 7958 | Direct new users to your website.
- Buy Smoke Alarm in Canada**
www.aartech.ca/ | Shop in Canada for smoke alarms, CO and natural gas detectors

CRAFTS BY
Amanda

Recycle Smoke & CO Alarms

ProductCare.org

Over 150 BC locations to recycle your old smoke and CO alarms.



HUNGER GAMES BOOK PAGE CHARMS

"May the odds be ever in your favor!" Famous words from a famous book series called The Hunger Games. If you're a fan like we are, then you recognize that quote immediately...

Cereal Menorah

NOV
26

According to the news, it could be thousands of years before Hannukah falls this close to Thanksgiving again! many are calling it Thanksgivukkah this year! I created this cereal menorah for Kix Cereal and would love it if you stopped over to get the step by step instructions! Go to - Kix Cereal Menorah Craft.



Hunger Games Book Page Charms

NOV
21

"May the odds be ever in your favor!" Famous words from a famous book series called The Hunger Games. If you're a fan like we are, then you recognized that quote immediately. So why not take a piece of that book with you wherever you go? These Hunger Games charms are perfect for keychains or necklaces! With the new movie [Read More »](#)



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Amanda Formaro is the creative mind behind hundreds of kid's crafts and adult home decor projects, all of which she shares on this blog and elsewhere throughout the online and print world. [Learn more here...](#)

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We Pay for Scrap Plastic

www.industrialrecyclers.com

We pay top dollar for all Plastic Scrap, Regrind and Virgin Resin



Organic Delivery Collection Card

Front and Back



AlarmRecycle

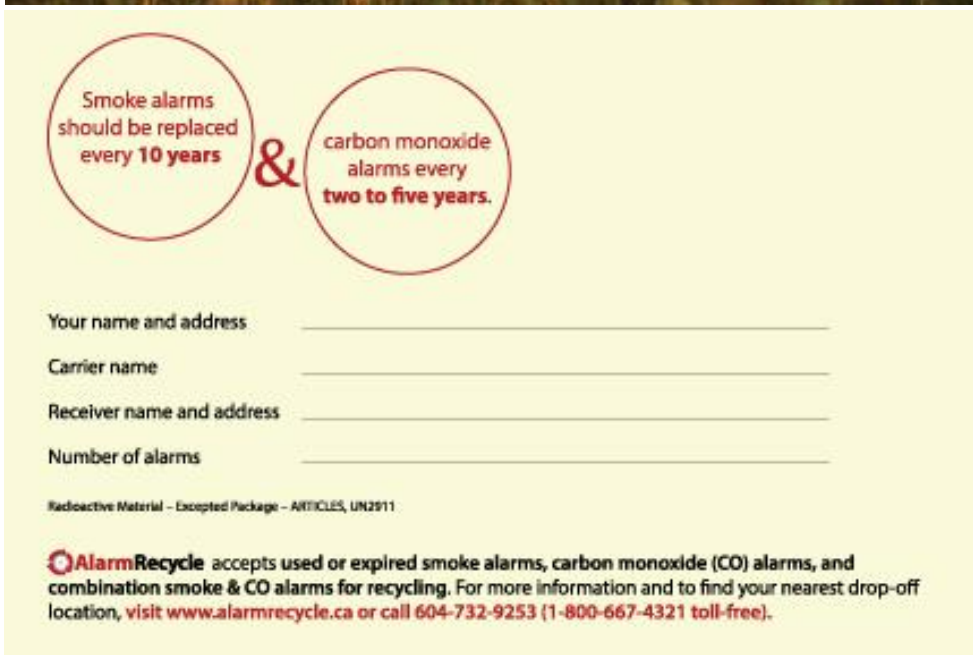
Fire kills 8 people each week in Canada.

Residential fires account for 73% of these fatalities.

88% of homes have something that poses a carbon monoxide threat.

Thank you for recycling your old and worn-out smoke and carbon monoxide (CO) alarms.

Please fill out the back of this card and place your old smoke or carbon monoxide alarm(s) in the bag provided for safe recycling.



Smoke alarms should be replaced every **10 years** & carbon monoxide alarms every **two to five years**.

Your name and address _____

Carrier name _____


Receiver name and address _____

Number of alarms _____



Radioactive Material - Excepted Package - ARTICLES, UN2911

AlarmRecycle accepts used or expired smoke alarms, carbon monoxide (CO) alarms, and combination smoke & CO alarms for recycling. For more information and to find your nearest drop-off location, visit www.alarmrecycle.ca or call 604-732-9253 (1-800-667-4321 toll-free).

Activity Book for Fire Hall Children's Initiatives



Recycle
your smoke & carbon
monoxide alarms
with AlarmRecycle!
Activity Book

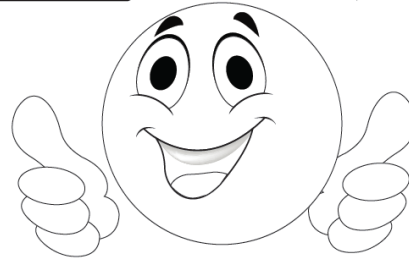
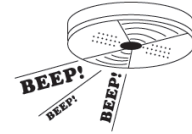


Colour

Remember to test your smoke alarm every month.
Has it stopped working? Don't throw it in the garbage.

Recycle it!

Smoke alarms should be replaced every 10 years,
carbon monoxide alarms every two to five years.



© AlarmRecycle

5

APPENDIX C: Detailed lists of AlarmRecycle Collection Sites in 2013

Complete List of all 2013 AlarmRecycle Collection Sites

Depot Name	City	Regional District
Abbotsford Bottle Depot	Abbotsford	Fraser Valley
Abbotsford Community Services Recycling	Abbotsford	Fraser Valley
Agassiz Bottle Depot	Agassiz	Fraser Valley
Aldergrove Return-It	Aldergrove	Metro Vancouver
Alpine Disposal & Recycling	Langford	Capital
Augusta Recyclers Ltd.	Powell River	Powell River
Bella Coola Recycling Depot	Bella Coola	Central Coast
Biggar Bottle Depot	Port Coquitlam	Metro Vancouver
Bill's Bottle Depot	Salmon Arm	Columbia-Sushwap
Bings Creek Solid Waste Complex	North Cowichan	Cowichan Valley
Boucherie Self Storage & Bottle Depot	Kelowna	Central Okanagan
Campbell Mountain Landfill	Penticton	Okanagan-Similkameen
Campbell River Waste Management Centre	Campbell River	Strathcona
Canadian Tire Campbell River	Campbell River	Strathcona
Canadian Tire Williams Lake	Williams Lake	Cariboo
Capital City and Sidney Fire equipment Ltd.	Sidney	Capital
Carney's Waste Systems - Pemberton Waste & Recycling Facility	Pemberton	Squamish-Lillooet
Carney's Waste Systems - Squamish	Squamish	Squamish-Lillooet
Carney's Waste Systems - Whistler	Whistler	Squamish-Lillooet
Century Hardware Ltd.	100 Mile House	Cariboo
Chasers Bottle Depot	Vernon	North Okanagan
Chetwynd Lions Recycling	Chetwynd	Peace River
Chilliwack Bottle Depot	Chilliwack	Fraser Valley
Comox Valley Waste Management Centre	Cumberland	Comox Valley
Coquitlam Return-It Depot	Coquitlam	Metro Vancouver
Courtenay Return-It Depot	Courtenay	Comox Valley
Cranbrook Bottle Depot	Cranbrook	East Kootenay
D&G Recycling Ltd	Delta	Metro Vancouver
D.C. Recycling & Bottle Depot	Dawson Creek	Peace River
Eco-Depot Recycling	Fort St. John	Peace River
Fleetwood Bottle Return Depot Ltd.	Surrey	Metro Vancouver
Fraser Lake Bottle Depot	Fraser Lake	Bulkley-Nechako
FSJ Bottle Drop	Fort St. John	Peace River
Gabriola Island Recycling	Gabriola Island	Nanaimo

Depot Name	City	Regional District
Gibsons Recycling Depot	Gibsons	Sunshine Coast
Go Green Depot & Recycling	Vancouver	Metro Vancouver
Gold Trail Recycling	100 Mile House	Cariboo
Hartland Recycling Depot	Victoria	Capital
Heiltsuk Environmental Bella Bella Eco-Depot	Bella Bella	Central Coast
Home Hardware Cranbrook	Cranbrook	East Kootenay
Home Hardware Merritt	Merritt	Thompson-Nicola
Home Hardware Revelstoke	Revelstoke	Columbia-Shushwap
Houston Recycling	Houston	Bulkley-Nechako
Interior Freight & Bottle Ltd.	Vernon	North Okanagan
Invermere Fire Department	Invermere	East Kootenay
Island Solid Waste Management	Port Clements	Skeena-Queen Charlotte
J&C Bottle Depot (formerly Penticton Recycling & Bottle Depot)	Penticton	Okanagan-Similkameen
Joe's Bottle Depot	Vancouver	Metro Vancouver
Junction Bottle Depot Ltd.	Ladysmith	Cowichan Valley
Kamloops Fire Rescue	Kamloops	Thompson-Nicola
Kaslo Building Supplies	Kaslo	Central Kootenay
Keremeos Landfill	Keremeos	Okanagan Similkameen
KUTE-Kitimat Recycling Depot	Kitimat	Kitimat-Stikine
Ladner Bottle Depot	Delta	Metro Vancouver
Langley Bottle Depot	Langley	Metro Vancouver
London Drugs #10	Vancouver	Metro Vancouver
London Drugs #11	Richmond	Metro Vancouver
London Drugs #12	Kelowna	Central Okanagan
London Drugs #14	Victoria	Capital
London Drugs #15	Coquitlam	Metro Vancouver
London Drugs #16	Abbotsford	Fraser Valley
London Drugs #17	Delta	Metro Vancouver
London Drugs #18	Langley	Metro Vancouver
London Drugs #19	Vancouver	Metro Vancouver
London Drugs #2	Vancouver	Metro Vancouver
London Drugs #25	Burnaby	Metro Vancouver
London Drugs #28	Vancouver	Metro Vancouver
London Drugs #29	Victoria	Capital
London Drugs #3	New Westminster	Metro Vancouver
London Drugs #35	Kamloops	Thompson-Nicola
London Drugs #36	Nanaimo	Nanaimo

Depot Name	City	Regional District
London Drugs #37	Delta	Metro Vancouver
London Drugs #39	Vernon	North Okanagan
London Drugs #4	Vancouver	Metro Vancouver
London Drugs #41	Chilliwack	Fraser Valley
London Drugs #42	South Surrey	Metro Vancouver
London Drugs #44	West Vancouver	Metro Vancouver
London Drugs #46	Victoria	Capital
London Drugs #47	Maple Ridge	Metro Vancouver
London Drugs #5	North Vancouver	Metro Vancouver
London Drugs #50	Vancouver	Metro Vancouver
London Drugs #51	Prince George	Fraser-Fort George
London Drugs #52	Richmond	Metro Vancouver
London Drugs #53	Vancouver	Metro Vancouver
London Drugs #54	Victoria	Capital
London Drugs #55	Mission	Fraser Valley
London Drugs #56	Burnaby	Metro Vancouver
London Drugs #6	Burnaby	Metro Vancouver
London Drugs #61	Gibsons	Sunshine Coast
London Drugs #67	Courtenay	Comox Valley
London Drugs #7	Vancouver	Metro Vancouver
London Drugs #70	Penticton	Okanagan-Similkameen
London Drugs #71	Burnaby	Metro Vancouver
London Drugs #72	Nanaimo	Nanaimo
London Drugs #73	Campbell River	Strathcona
London Drugs #74	Vancouver	Metro Vancouver
London Drugs #75	Surrey	Metro Vancouver
London Drugs #76	Westbank	Central Okanagan
London Drugs #77	Duncan	Cowichan Valley
London Drugs #78	Vancouver	Metro Vancouver
London Drugs #8	Surrey	Metro Vancouver
London Drugs #80	Squamish	Squamish-Lillooet
London Drugs #81	Surrey	Metro Vancouver
London Drugs #82	Vancouver	Metro Vancouver
London Drugs #9	Surrey	Metro Vancouver
London Drugs #85	Abbotsford	Fraser Valley
Lone Butte Supply	100 Mile House	Cariboo
Lougheed Return-It	Coquitlam	Metro Vancouver
Mayne Island Recycling Society	Mayne Island	Capital

Depot Name	City	Regional District
Meade Creek Recycling Drop-Off Depot	Lake Cowichan	Cowichan Valley
Mission Recycling Depot	Mission	Fraser Valley
Nanaimo Recycling Exchange Society	Nanaimo	Nanaimo
Nelson Home Bldg Centre	Nelson	Northern Rockies
New & Nearly New	Kimberley	East Kootenay
North Shore Bottle Depot	North Vancouver	Metro Vancouver
North Van Bottle and Return -it Depot	North Vancouver	Metro Vancouver
Oak Bay Recycling Depot	Victoria	Capital
Okanagan Falls Landfill	Okanagan Falls	Okanagan-Similkameen
Oliver Sanitary Landfill	Oliver	Okanagan-Similkameen
Osoyoos Bottle Depot	Osoyoos	Okanagan-Similkameen
Parksville Bottle & Recycling Depot	Parksville	Nanaimo
Parksville Home Hardware	Parksville	Nanaimo
Peerless Road Recycling Drop-Off Depot	Ladysmith	Cowichan Valley
Pender Island Recycling Society	Pender Island	Capital
PG Recycling & Return-It Centre	Prince George	Fraser-Fort George
Planet Earth Recycling	Westbank	Central Okanagan
Port Alberni Recycling Depot	Port Alberni	Alberni-Clayoquot
Quality Glass Ltd.	Ashcroft	Thompson-Nicola
Queensborough Landing Return-It	New Westminster	Metro Vancouver
Regional Recycling – Abbotsford	Abbotsford	Fraser Valley
Regional Recycling – Burnaby	Burnaby	Metro Vancouver
Regional Recycling – Cloverdale	Surrey	Metro Vancouver
Regional Recycling – Nanaimo	Nanaimo	Nanaimo
Regional Recycling – Nanaimo	Nanaimo	Nanaimo
Regional Recycling – Prince Rupert	Prince Rupert	Skeena-Queen Charlotte
Regional Recycling – Richmond	Richmond	Metro Vancouver
Regional Recycling – Vancouver	Vancouver	Metro Vancouver
Regional Recycling – Whistler	Whistler	Squamish-Lillooet
Ridge Meadows Recycling Society	Maple Ridge	Metro Vancouver
RONA (Alert Bay)	Alert Bay	Mount Waddington
RONA Home Centre (Hope)	Hope	Fraser Valley
Saltspring Island Recycling	Saltspring Island	Capital
Sardis Bottle Depot	Chilliwack	Fraser Valley
Scotch Creek Bottle Depot	Scotch Creek	Columbia-Shuswap
Scott Road Bottle Depot	Surrey	Metro Vancouver

Depot Name	City	Regional District
Semiahmoo Bottle Depot	Surrey	Metro Vancouver
Seven Mile Recycling Centre	Port McNeil	Mount Waddington
Shepherds Home Hardware	Armstrong	North Okanagan
Sooke Home Hardware	Sooke	Capital
South Van Bottle Depot	Vancouver	Metro Vancouver
Steveston Return -It	Richmond	Metro Vancouver
Super Save Bottle Depot	Clearwater	Thompson-Nicola
The Bargain Bin	Castlegar	Central Kootenay
The Battery Doctors	Kelowna	Central Okanagan
Tofino Bottle Depot	Tofino	Alberni-Clayoquot
Trail Bay Hardware	Sechelt	Sunshine Coast
Trail Bottle Depot	Trail	Kootenay Boundary
Ucluelet Bottle Depot	Ucluelet	Alberni-Clayoquot
Venture Training Vernon	Vernon	North Okanagan
Village of Gold River	Gold River	Strathcona
Walnut Grove Bottle Depot	Langley	Metro Vancouver
Westcoast Home Hardware	Port Alberni	Alberni-Clayoquot
Whistler Fire Rescue Services	Whistler	Squamish-Lillooet
Wide Sky Disposal	Fort Nelson	Northern Rockies
Willowbrook Recycling Depot	Langley	Metro Vancouver

Breakdown of Collection Sites per Regional District

Regional District	# of Collection Sites
Alberni-Clayoquot	4
Bulkley-Nechako	2
Capital	12
Cariboo	4
Central Coast	2
Central Kootenay	2
Central Okanagan	5
Columbia-Shuswap	3
Comox Valley	3
Cowichan Valley	5
East Kootenay	4
Fraser-Fort George	2
Fraser Valley	13
Metro Vancouver	53

Kitimat-Stikine	1
Kootenay Boundary	1
Mount Waddington	2
Nanaimo	8
North Okanagan	5
Northern Rockies	2
Okanagan-Similkameen	7
Peace River	4
Powell River	1
Skeena-Queen Charlotte	2
Squamish Lillooet	6
Strathcona	4
Sunshine Coast	3
Thompson-Nicola	5
TOTAL	165

APPENDIX D: Independent Financial 2013 Audit of AlarmRecycle

**PRODUCT CARE ASSOCIATION
BC SMOKE AND CARBON MONOXIDE
(CO) ALARMS PROGRAM**

STATEMENT OF REVENUES AND EXPENSES

31 DECEMBER 2013



**PRODUCT CARE ASSOCIATION
BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM
Statement of Revenues and Expenses
For the year ended 31 December 2013**

Contents

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1500 – 1090 West Georgia Street

Vancouver, B.C. V6E 3V7

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INDEPENDENT AUDITORS' REPORT

To: BC Ministry of Environment,

As required the British Columbia Environmental Management Act, Recycling Regulation 8(2)(f)(ii), we have audited the Statement of Revenues and Expenses of the BC Smoke and Carbon Monoxide (CO) Alarms Program (the "Statement") as reported by Product Care Association for the year ended 31 December 2013 and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Statement

Management is responsible for the preparation of the Statement in accordance with Canadian accounting standards for not-for-profit organizations, and for such internal control as management determines is necessary to enable the preparation of the Statement that is free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on the Statement based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the Statement is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Statement. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the Statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of the Statement in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the Statement.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



ROLFE, BENSON LLP

CHARTERED ACCOUNTANTS

INDEPENDENT AUDITORS' REPORT - continued

Opinion

In our opinion, the Statement presents fairly, in all material respects, the revenues and expenses of the BC Smoke and Carbon Monoxide (CO) Alarms Program as reported by Product Care Association for the year ended 31 December 2013 in accordance with Canadian accounting standards for not-for-profit organizations.

Restriction on Distribution

This report is prepared on the direction of Product Care Association's management and the BC Ministry of Environment. As a result, the report may not be suitable for another purpose. Our report is intended solely for Product Care Association's management and the BC Ministry of Environment and should not be distributed to other parties.

Rolfe, Benson LLP
CHARTERED ACCOUNTANTS

Vancouver, Canada
28 April 2014



PRODUCT CARE ASSOCIATION
BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM
Statement of Revenues and Expenses
For the year ended 31 December 2013

	2013
Revenues	<u>\$ 500,498</u>
Program expenses	
Processing (Note 3)	220,344
Collection	19,811
Transportation	7,440
Depot supplies	1,905
	<u>249,500</u>
General and administrative expenses	
Communications	29,341
Administration	12,053
Overhead allocation (Note 2(c))	23,583
	<u>64,977</u>
Total expenses	<u>314,477</u>
Excess of revenues over expenses for the year	<u>\$ 186,021</u>

The accompanying notes are an integral part of this statement.

PRODUCT CARE ASSOCIATION
BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM
Notes to the Statement of Revenues and Expenses
For the year ended 31 December 2013

1. Basis of Presentation

The Statement of Revenues and Expenses (the "Statement") only includes the revenues and expenses related to the BC Smoke and Carbon Monoxide (CO) Alarms Program, a segment of the operations of Product Care Association (the "Association").

2. Summary of Significant Accounting Policies

The Statement is prepared in accordance with Canadian accounting standards for not-for-profit organizations. The significant policies are detailed as follows:

(a) Revenue Recognition

Revenue from eco-fees is recognized at the time an eco-fee applicable product is sold by a member of the Association, and the eco-fee becomes due and payable.

(b) Use of Estimates

The preparation of financial statements in conformity with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the balance sheet date and the reported amounts of revenues and expenses during the year. Actual results could differ from those estimates.

(c) General and Administrative Expenses - Overhead Allocation

A portion of the total general and administrative expenses of the Association, net of expense recoveries, has been allocated to this program. The allocation of general and administrative expenses to this program is determined using the percentage of program specific operating expenses as compared to total operating expenses for all the Association's programs.

3. Processing Commitment

At year end, the Association had unprocessed program materials on hand with an estimated cost to process, transport and recycle of \$86,683 which will be incurred in 2014.

APPENDIX E: Third Party Assurance Statement for Non-Financial Information

**BC SMOKE AND CARBON MONOXIDE (CO)
ALARMS PROGRAM**

INDEPENDENT AUDITORS' REPORT

31 DECEMBER 2013



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INDEPENDENT AUDITORS' REPORT

To the British Columbia Ministry of Environment:

We have audited the following Sections within Product Care Association's (the "Association") Annual Report for the BC Smoke and Carbon Monoxide (CO) Alarms ("Alarm Recycle") Program for the year ended 31 December 2013 (together the "Subject Matter"):

- Table 2 and Appendix C - *Collection facilities;*
- Table 3 - *Product collected; and*
- *Description of performance for the year in relation to target 2 on page 4 and target 1 on page 13 of the Annual Report.*

The objective of this Report is to disclose how the Association's management has discharged its responsibility to report on the Subject Matter in accordance with Sections 8(2)(b), and (e) of the Recycling Regulation.

The Subject Matter is the responsibility of the Association's management who have prepared the Subject Matter in accordance with the evaluation criteria which are an integral part of the Subject Matter. Our responsibility is to express an opinion on this Subject Matter based on our audit. Our audit does not constitute a legal determination on the Association's compliance with the Recycling Regulation.

Evaluation Criteria

The suitability of the evaluation criteria is the responsibility of management. The evaluation criteria presented in Attachment 1 are an integral part of the Subject Matter and address the relevance, completeness, reliability, neutrality and understandability of the Subject Matter.

Scope of the Audit

We carried out our audit in accordance with Canadian Auditing Standard 5025, as published by the Chartered Professional Accountants of Canada. This Standard requires, amongst others, that the assurance team possesses the specific knowledge, skills and professional competencies needed to understand and audit the information included within the Subject Matter, and that they comply with specific requirements to ensure their independence.





An audit includes examining, on a test basis, evidence supporting the amounts and disclosures within the Subject Matter. An audit also includes assessing the evaluation criteria used and significant estimates made by management, as well as evaluating the overall presentation of the Subject Matter. The main elements of our work were:

- confirming the existence of collection facilities and their understanding of the program by reviewing contracts, performing site visits, telephone contact with the facilities and internet research;
- comparing the number of collection facilities to the prior year and investigating the reasons for any changes;
- checking the units of product collected during the year by agreeing to supporting shipping documentation on a test basis;
- re-performing calculations on a test basis; and
- ensuring wording of the Annual Report is reflective of audit findings.

Opinion

In our opinion, the Subject Matter within Product Care Association's Annual Report for the BC Smoke and Carbon Monoxide (CO) Alarms Program for the year ended 31 December 2013 presents fairly in accordance with the evaluation criteria, in all material respects:

- the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation;
- the description of how total amounts of the producer's product collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation; and
- the description of performance for the year in relation to targets in the approved stewardship plan under Section 8(2)(b) and (e) of the Recycling Regulation.

Our report has been prepared solely for the purposes of management's stewardship under the Recycling Regulation and is not intended to be and should not be used for any other purpose. Our duties in relation to this report are owed solely to the Association, and accordingly, we do not accept any responsibility for loss occasioned to any other party acting or refraining from acting based on this report.

Rolfe, Benson LLP

CHARTERED ACCOUNTANTS

Vancouver, Canada
27 June 2014



Attachment 1

Evaluation Criteria

The following evaluation criteria were applied to the assessment of the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation:

- The Association maintains a listing of all collection facilities for the program, including the location of the collection facility, the total of which agrees to the number of collection facilities as disclosed in the Annual Report.
- Collection facilities have a signed contract with the Association, a physical location that is available to collect program materials, and the staff of the facility has an adequate understanding of the program.
- Reasons for any changes in the number of collection facilities from the previous annual report are supported by valid business purposes and adequately disclosed in the Annual Report.
- The definition of a collection facility as disclosed in the Annual Report is accurate.

The following evaluation criteria were applied to the assessment of the description of how total amounts of the producer's product collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation:

- The Association maintains a listing of product collected by product category for the fiscal year which agrees to the amounts disclosed in the Annual Report.
- Each shipment of product collected is supported by documentation indicating the total units collected and the type of program materials collected which has been agreed upon by the shipper, receiver and carrier.
- The calculation of total program materials collected is based on total boxes collected and converted to units using an average of units per boxes.
- The Association is not required to present product sold or a recovery rate in the Annual Report due to confidentiality reasons within the industry.

The following evaluation criteria were applied to the assessment of the description of performance for the year in relation to targets in the approved stewardship plan under Section 8(2)(b) and (e) of the Recycling Regulation:

- All stewardship plan targets relating to Section 8(2)(b) and (e) of the Recycling Regulation have been identified and disclosed in the Annual Report.
- The expected outcomes and target dates as included in the Annual Report are consistent with the targets in the approved stewardship plan.
- The facts disclosed in the annual update on progress are supportable by evidence, neutral and understandable.